USGS science for a changing world

Earthquake Shaking — Yellow Alert

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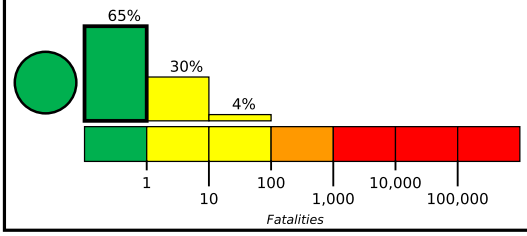
M 5.6, 122 km WNW of Aykol, China

Origin Time: 2024-01-22 23:19:26 UTC (Tue 05:19:26 local)
Location: 41.2186° N 78.7240° E Depth: 10.0 km

PAGER Version 2

Created: 2 hours, 4 minutes after earthquake

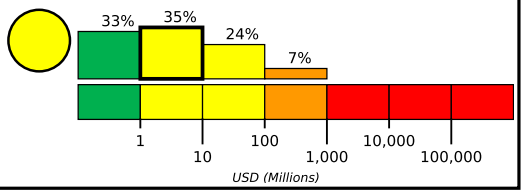
Estimated Fatalities



Yellow alert for economic losses. Some damage is possible and the impact should be relatively localized. Estimated economic losses are less than 1% of GDP of China. Past events with this alert level have required a local or regional level response.

Green alert for shaking-related fatalities. There is a low likelihood of casualties.

Estimated Economic Losses

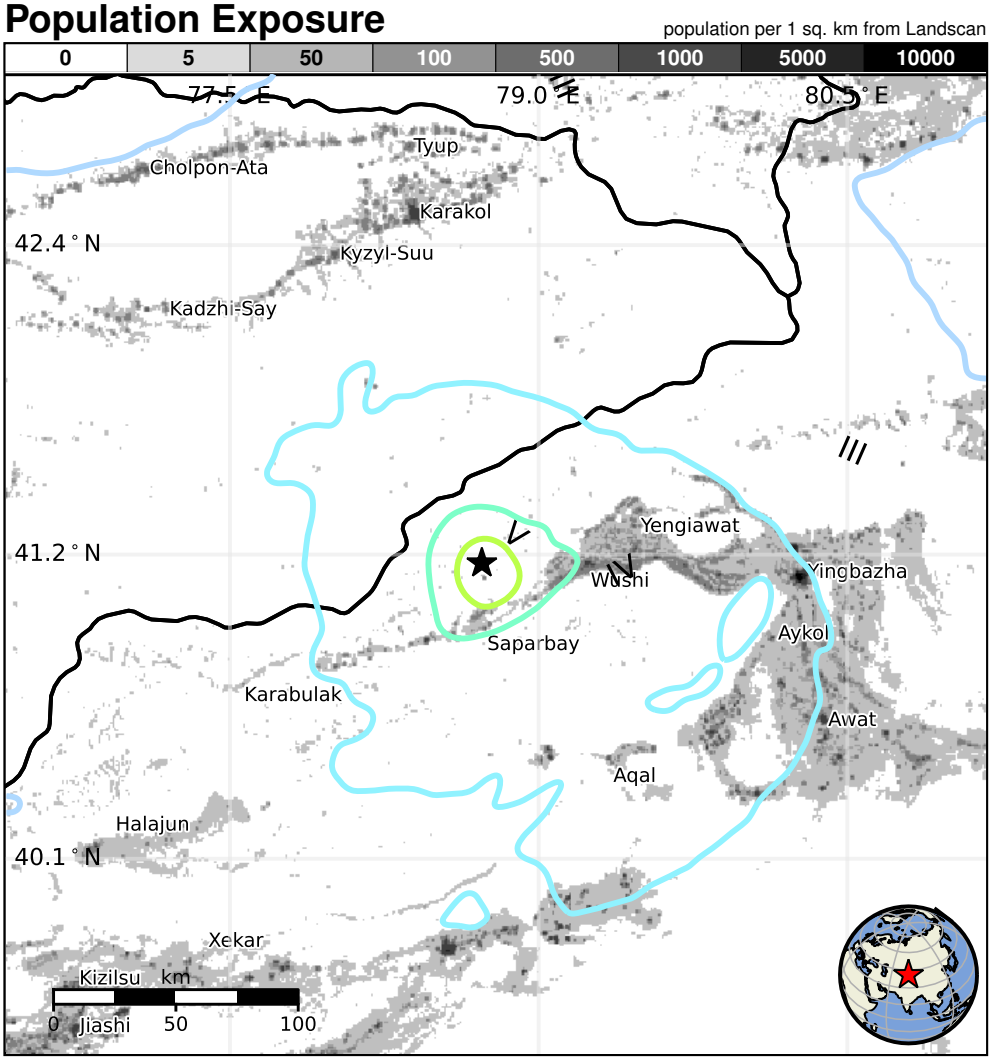


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		–*	1,750k*	1,085k	41k	3k	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING		Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are vulnerable to earthquake shaking, though resistant structures exist. The predominant vulnerable building types are adobe block and log construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1983-02-13	323	6.2	VI(17k)	1
1996-03-19	221	6.3	VII(11k)	24
2003-02-24	229	6.3	VIII(3k)	261

Selected City Exposure

from GeoNames.org

MMI	City	Population
V	Yamansu	<1k
IV	**Saparbay**	**<1k**
IV	Akqi	<1k
IV	**Yengiawat**	**<1k**
IV	Yimamu	<1k
IV	**Wushi**	**<1k**
IV	Aksu	340k
III	**Kyzyl-Suu**	**17k**
III	**Tyup**	**13k**
III	**Karakol**	**70k**
III	**Cholpon-Ata**	**19k**

bold cities appear on map. (k=x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

https://earthquake.usgs.gov/earthquakes/eventpage/us7000lt29#pager

Event ID: us7000lt29